

Product datasheet for **RC204603**

AP2 alpha (TFAP2A) (NM_001032280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP2 alpha (TFAP2A) (NM_001032280) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP2 alpha
Synonyms:	AP-2; AP-2alpha; AP2TF; BOFS; TFAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204603 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTAGTTCACAGTTTTTCAGCCATGGACCGTACGACGGCACCAGCAACGGGACGGCACGGTTGCCCC
 AGCTGGGCACTGTAGGTCAATCTCCCTACACGAGCGCCCGCGCTGTCCACACCCCAATGCCGACTT
 CCAGCCCCATACTTCCCCCACCTACCAGCCTATCTACCCCAAGTTCGCAAGATCCTTACTCCACGTC
 AACGACCCCTACAGCCTGAACCCCTGCACGCCAGCGCAGCCGAGCACCAGGCTGGCCCGCCAGA
 GGCAGAGCCAGGAGTCTGGGCTCCTGCACACGCCGGGGGCTGCCTCACCAGCTGTGGGCTGGATCC
 TCGCAGGGACTACAGGCGGCACGAGGACCTCCTGCACGGCCACACGCGCTCAGCTCAGGACTCGGAGAC
 CTCTCGATCCACTCCTTACCTACGCCATCGAGGAGTCCCGCATGTAGAAGACCCGGGTATTAACATCC
 CAGATCAAAGTGAATTAAGAAAGGCCCGTGTCCCTGTCCAAGTCCAACAGCAATGCCGCTCCGCCAT
 CCCTATTAACAAGGACAACCTCTTCGGCGCGTGGTGAACCCCAACGAAGTCTTCTGTTAGTTCGGGT
 CGCCTCTCGCTCCTCAGCTCCACCTCGAAGTACAAGGTACGGTGGCGGAAGTGCAGCGCGGCTCTCAC
 CACCCGAGTGTCTCAACGCGTCTGCTGGGCGGAGTGTCCGGAGGGCGAAGTCTAAAAATGGAGGAAG
 ATCTTTAAGAGAAAACTGGACAAAATAGGATTAATCTGCCTGCAGGGAGACGTAAGCTGCCAACGTT
 ACCCTGCTCACATCACTAGTAGAGGGAGAAGCTGTCCACCTAGCCAGGGACTTTGGGTACGTGTGCGAAA
 CCGAATTTCTGCCAAAGCAGTAGCTGAATTTCTCAACCGACAACATTCGATCCCAATGAGCAAGTGAC
 AAGAAAAACATGCTCCTGGCTACAAAACAGATATGCAAAGATTACCCGACCTGCTGGCTCAGGACCGA
 TCTCCCCTGGGAACTCACGGCCCAACCCATCCTGGAGCCCGCATCCAGAGCTGCTTGACCCACTTCA
 ACCTCATCTCCACGGCTTCGGCAGCCCGCGGTGTGTGCCGCGGTACGGCCCTGCAGAACTATCTCAC
 CGAGGCCCTCAAGGCCATGGACAAAATGTACCTCAGCAACAACCCCAATAGCCACACGGACAACAACGCC
 AAAAGCAGTGACAAAGAGGAGAAGCACAGAAAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC204603 protein sequence
 Red=Cloning site Green=Tags(s)

MLVHSFSAMDRHDGTSNGTARLPQLGTVGQSPYTSAPPLSHTPNADFQPPYFPPPYQPIYQSQDPYSHV
 NDPYSLNPLHAQPQHPGWPGQRQSQESGLLHTRGLPHQLSGLDPRRDYRRHEDLLHGPHALSSGLGD
 LSIHSLPHAIIEVPHVEDPGINIPDQTVIKKGPVSLSKSNSNAVSAIPINKDNLFGGVVNPNEVFCVPG
 RLSLLSSTSKYKVTVAEVQRRSPPECLNASLLGGVLRRAKSKNGGRSLREKLDKIGLNLPAARRKAANV
 TLLTSLVEGEAVHLARDFGYVCETEFPAKAVAEFLNRQHSDPNEQVTRKNMLLATKQICKEFTDLAQRD
 SPLGNSRPNPILEPGIQSCLTHFNLI SHGFGSPAVCAAVTALQNYL TEALKAMDKMYLSNNPNSHTDNNA
 KSSDKKEEKHRK

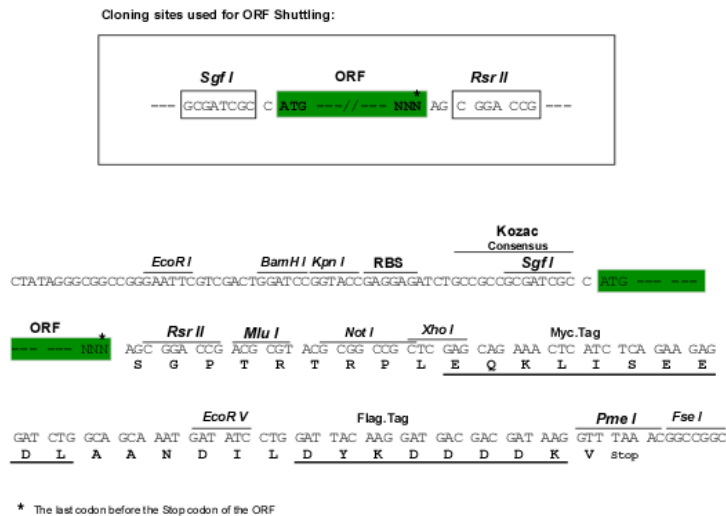
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6619_d07.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001032280

ORF Size: 1293 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001032280.1](#), [NP_001027451.1](#)

RefSeq Size: 3808 bp

RefSeq ORF: 1296 bp

Locus ID: 7020

UniProt ID: [P05549](#)

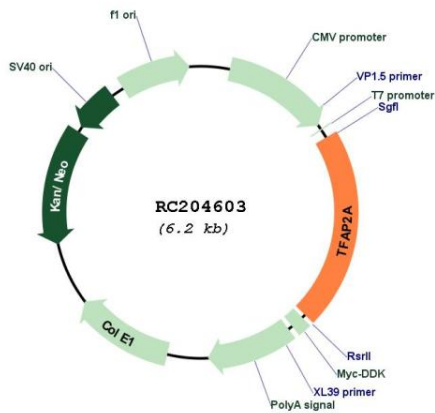
Cytogenetics: 6p24.3

Protein Families: Druggable Genome, Transcription Factors

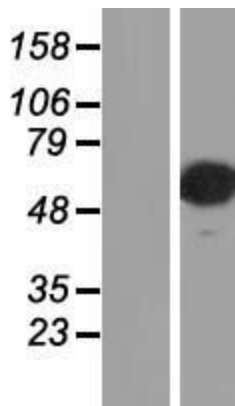
MW: 47.2 kDa

Gene Summary: The protein encoded by this gene is a transcription factor that binds the consensus sequence 5'-GCCNNNGGC-3'. The encoded protein functions as either a homodimer or as a heterodimer with similar family members. This protein activates the transcription of some genes while inhibiting the transcription of others. Defects in this gene are a cause of branchiooculofacial syndrome (BOFS). Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Dec 2009]

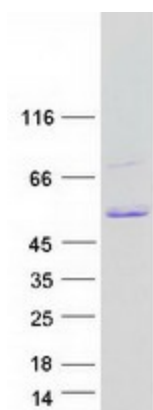
Product images:



Circular map for RC204603



Western blot validation of overexpression lysate (Cat# [LY422292]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204603 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TFAP2A protein (Cat# [TP304603]). The protein was produced from HEK293T cells transfected with TFAP2A cDNA clone (Cat# RC204603) using MegaTran 2.0 (Cat# [TT210002]).